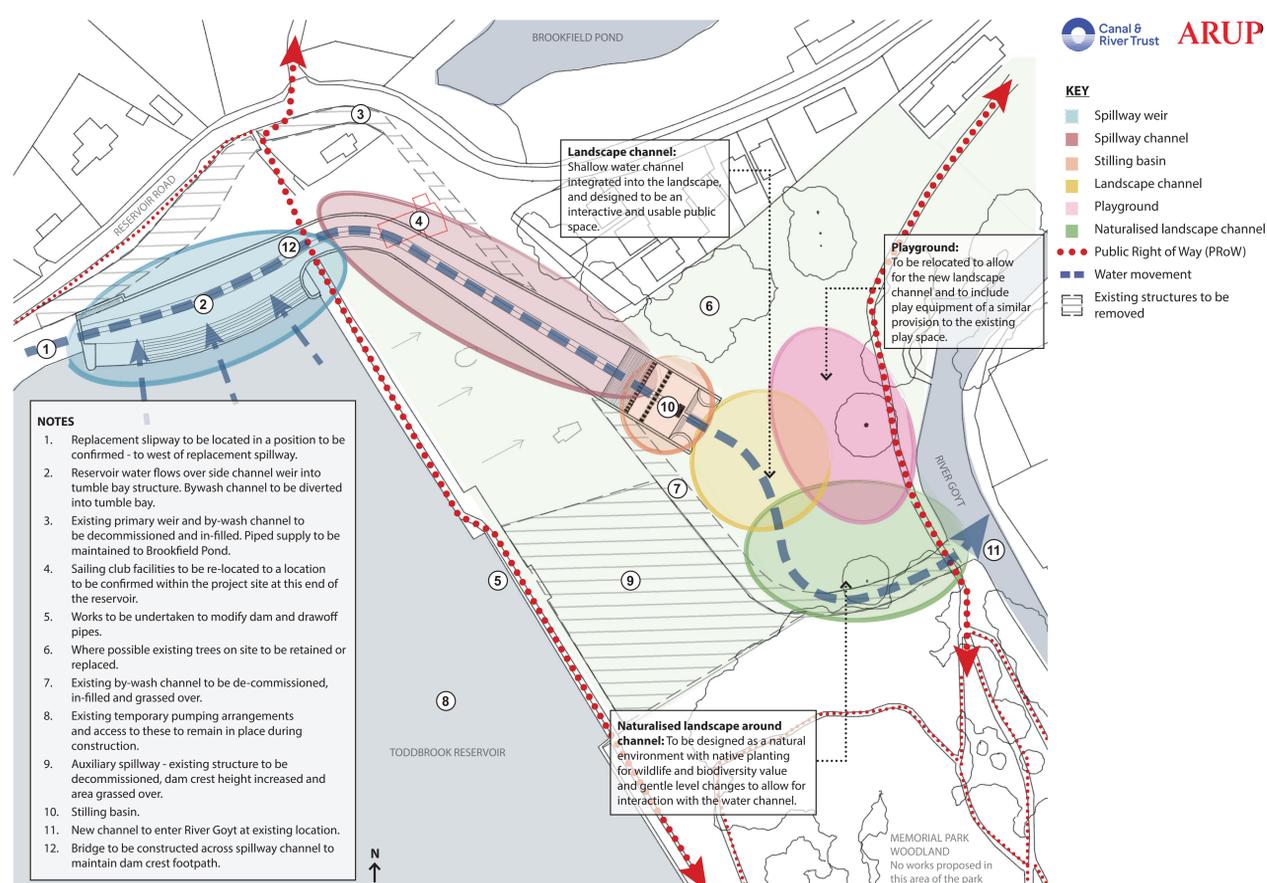


Our chosen spillway design

Following the 2019 incident, our team undertook an optioneering process to consider a range of possibilities for restoring Toddbrook Reservoir. In September 2020, we consulted on the two best performing designs for a new spillway to safely transfer water from the reservoir to the River Goyt at times of high rainfall.



Toddbrook spillway scheme concept sketch

Spillway design

On 23 March 2021, we announced the chosen design was a new spillway off the left (north) side of the dam as seen above. As part of this announcement, we shared a Non-Technical Summary and Technical Note providing further information on the engineering assessments we have undertaken to develop our proposal. The Non-Technical Summary also provides information showing some of the ways consultation feedback has informed our spillway design.

The new spillway will be located on the left side of the dam (looking downstream towards the river). Our plan for the permanent repair of Toddbrook Reservoir involves constructing:

- a new side channel weir, where water will overflow into a 'tumble bay';
- a new spillway channel on the left (north / sailing club) side of the reservoir dam;
- a stilling basin at the end of the spillway to reduce the energy of the water; and
- a channel through the park which connects to the River Goyt in the existing location.

The new spillway will provide enough overflow capacity for the reservoir on its own, meaning the existing auxiliary spillway is no longer needed.

This will be removed and grassed over, and we will fill much of the existing bywash channel to return as usable space.

The existing sailing club buildings and slipway will be relocated to construct the new spillway.